PATENT COOPERATION TREATY

PCT

REC'D 2 1 MAR 2006

INTERNATIONAL PRELIMINARY REPORT ON PATENT WEEDTY (Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

[A 1: 1	T				
Applicant's or agent's file reference PP04-0125	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No.	International filing date(day/month)	(year) Priority date (day/month/year)			
PCT/KR2004/003024	22 NOVEMBER 2004 (22.1	11.2004) 08 DECEMBER 2003 (08.12.2003)			
International Patent Classification (IPC) or national classification and IPC				
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C12N 1/16(2006.01)i, A23L 1/	09(2006.01)i	•			
	·				
Applicant					
CJ CORP. et al					
CJ CORP. et al	•				
This report is the international pr Authority under Article 35 and tr	eliminary examination report, establis	hed by this International Preliminary Examining o Article 36.			
	of 4 sheets, including				
3. This report is also accompanied	_	and cover sheet.			
		of sheets, as follows:			
sheets of the des	scription, claims and/or drawings whi	ch have been amended and are the basis for this report			
		is Authority (see Rule 70.16 and Section 607 of the			
Administrative I	•				
beyond the discle	ersede earlier sneets, but which this A	uthority considers contain an amendment that goes s filed, as indicated in item 4 of Box No. I and the			
Supplemental Bo	ox.				
b. (sent to the Internation	al Bureau only) a total of (indicate typ	e and number of electronic carrier(s)),			
containing a sequence I Box relating to Sequence	isting and/or tables related thereto, in the Elisting (see Section 802 of the Adm	electronic form only, as indicated in the Supplemental			
	so stating (see Section 602 of the France	mistrative first decions).			
4. This report contains indications r	elating to the following items:				
Box No. I Basis of the					
Box No. II Priority	-				
	ishment of opinion with regard to nov	elty inventive step and industrial applicability			
	The state of the s				
		ard to novelty, inventive step or industrial applicability;			
	d explanations supporting such statem	ent			
Box No. VI Certain do	cuments cited				
Box No. VII Certain def	ects in the international application				
Box No. VIII Certain obs	Box No. VIII Certain observations on the international application				
Date of submission of the demand	Date of co	ompletion of this report			
07 OCTOBER 2005	(07.10.2005) 08	MARCH 2006 (08.03.2006)			
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Name and mailing address of the IPEA	/KR Authorize	d officer			
Korean Intellectual Propert	y Office	The same of the sa			
920 Dunsan-dong, Seo-gu, Republic of Korea	Daejeon 302-701, LEI	E, CHUNG HO			
Facsimile No. 82-42-472-7140	Telephone	e No. 82-42-481-8160			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/003024

Box No	. 1 Basis of the report				
	ith regard to the language , this report is based on the international application in the language in which it was filed, unless herwise indicated under this item. This report is based on translations from the original language into the following language English which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)				
to th	th regard to the elements of the international application, this report is based on (replacement sheets which have been furnis the receiving Office in response to an invitation under Article 14 are referred to in this reort as "originally filed" and are no nexed to this report): the international application as originally filed/furnished				
	the description:				
اسسا	pagesas originally filed/furnished				
	pages* received by this Authority on				
•	pages* received by this Authority on				
	pages				
	the claims:				
نــا	pagesas originally filed/furnished				
	pages*as amended (together with any statment) under Article 19				
	pages* received by this Authority on				
	pages* received by this Authority on				
	received by this Authority on				
	the drawings:				
	pagesas originally filed/furnished				
	us originary measurmsned				
	pages* received by this Authority on pages* received by this Authority on				
	the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3.	The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):				
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):				
* If iten	1 4 applies, some or all of those sheets may be marked "superseded."				

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Box No. IV Lack of unity of invention						
1.		In response to the invitation to restrict or pay additional fees the applicant has, within the applicable time limit: restricted the claims paid additional fees				
		paid additional fees under protest and, where applicable, the protest fee				
		paid additional fees under protest but the applicable protest fee was not paid				
		neither restricted nor paid additional fees.				
2.		This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.				
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:				
		complied with.				
	\boxtimes	not complied with for the following reasons:				
		Group I, claim 1 drawn to a chemically defined medium for fermentation culture of a strain of the genus Candida.				
	•	Group II, claims 2-9 drawn to a process for producing xylitol in high yield by recycling culture of a strain of the genus Candida.				
		therefore, it considers that the inventions listed as Groups I and II do not relate to a single inventive concept under PCT Rule 13.1.				
		·				
		·				
4.	Conse	equently, this report has been established in respect of the following parts of the international application:				
	\boxtimes	all parts.				
		the parts relating to claims Nos.				

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-9	<u>Y</u> ES
		Claims	*	NO
	Inventive step (IS)	Claims	1-9	YES
		Claims		NO
	Industrial applicability (IA)	Claims	· 1-9	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

The following documents have been considered for the purpose of this report:

D1: JP 12-093188 A (BORATSUKU CO., LTD.) 4 APRIL 2000

D2: KR 2000-76625 A (AJINOMOTO CO., LTD) 26 DECEMBER 2000

I. Novelty and Inventive Step

Claims 1–9 of the present application relate to a chemically defined medium for fermentation culture of a strain of the genus *Candida*, which comprises a special composition; and a process for producing xylitol in high yield by recycling culture of a strain of the genus *Candida*.

D1 discloses a method for preparing xylitol by culturing *Candida tropicalis*. D2 describes a method of producing xylitol by culturing of various microorganisms.

Compared with the present application, none of the above-mentioned prior art documents discloses the special medium and the method to effectively product xylitol with high yield using recycling microorganisms. In addition, the claimed invention is not considered obvious to a person skilled in the art by using the teachings of D1-D2.

Therefore, the subject matter of claims 1-9 of the present application complies with the requirements of novelty and inventive step under PCT Article 33(2) and (3).

II. Industrial Applicability

There is no reason for forming a negative opinion about the industrial applicability of this application. Consequently, claims 1-9 appear to meet the requirement of PCT Article 33(4).